



OIFE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,422

DATE: 04/11/2002

TIME: 14:19:42

Input Set : A:\Cura-432.app

Output Set: N:\CRF3\04112002\I965422.raw

ENTERED

3 <110> APPLICANT: Spytek, Kimberly A
4 Casman, Stacie
5 Padigaru, Muralidhara
6 Dickson, Kevin
7 Vernet, Corine
8 Spaderna, Steven K
9 Shenoy, Suresh G
10 Gerlach, Valerie
11 Ellerman, Karen
12 Edinger, Shlomit
13 MacDougall, John R
14 Smithson, Glennda
15 Li, Li
16 Malyankar, Urial M
17 Taylor, Sarah
18 Gunther, Erik
19 Tchernev, Velizar T
21 <120> TITLE OF INVENTION: Novel Proteins and Nucleic Acids Encoding Same
23 <130> FILE REFERENCE: 21401-132
25 <140> CURRENT APPLICATION NUMBER: 09/965,422
26 <141> CURRENT FILING DATE: 2001-09-27
28 <150> PRIOR APPLICATION NUMBER: 60/236,286
29 <151> PRIOR FILING DATE: 2000-09-28
31 <150> PRIOR APPLICATION NUMBER: 60/236,284
32 <151> PRIOR FILING DATE: 2000-09-28
34 <150> PRIOR APPLICATION NUMBER: 60/237,581
35 <151> PRIOR FILING DATE: 2000-10-03
37 <150> PRIOR APPLICATION NUMBER: 60/238,735
38 <151> PRIOR FILING DATE: 2000-10-06
40 <150> PRIOR APPLICATION NUMBER: 60/240,736
41 <151> PRIOR FILING DATE: 2000-10-16
43 <150> PRIOR APPLICATION NUMBER: 60/260,019
44 <151> PRIOR FILING DATE: 2001-01-05
46 <150> PRIOR APPLICATION NUMBER: 60/260,338
47 <151> PRIOR FILING DATE: 2001-01-08
49 <150> PRIOR APPLICATION NUMBER: 60/262,156
50 <151> PRIOR FILING DATE: 2001-01-17
52 <150> PRIOR APPLICATION NUMBER: 60/262,498
53 <151> PRIOR FILING DATE: 2001-01-18
55 <150> PRIOR APPLICATION NUMBER: 60/263,133
56 <151> PRIOR FILING DATE: 2001-01-19
58 <150> PRIOR APPLICATION NUMBER: 60/263,691
59 <151> PRIOR FILING DATE: 2001-01-24

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,422

DATE: 04/11/2002

TIME: 14:19:42

Input Set : A:\Cura-432.app

Output Set: N:\CRF3\04112002\I965422.raw

```

61 <150> PRIOR APPLICATION NUMBER: 60/266,109
62 <151> PRIOR FILING DATE: 2001-02-02
64 <150> PRIOR APPLICATION NUMBER: 60/271,634
65 <151> PRIOR FILING DATE: 2001-02-26
67 <160> NUMBER OF SEQ ID NOS: 127
69 <170> SOFTWARE: PatentIn Ver. 2.1
71 <210> SEQ ID NO: 1
72 <211> LENGTH: 1329
73 <212> TYPE: DNA
74 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 1
77 atggagccgc tcaacagaac agaggtgtcc gagttctttc tgaaaggatt ttctggctac 60
78 ccagccctgg agcatctgct ctccctctg tgctcagcca tgtacctggt gacctcctg 120
79 gggaacacag ccatcatggc ggtgagcgtg ctagatatcc acctgcacac gcccggtgac 180
80 ttcttcctgg gcaacctctc taccctggac atctgctaca cgcccacctt tgtgcctctg 240
81 atgctggtcc acctcctgtc atcccgaag accatctcct ttgctgtctg tgccatccag 300
82 atgtgtctga gcctgtccac gggctccacg gagtgccctg tactggccgt gatggcatat 360
83 gaccgttatg tggctatctg ccagccgctt aggtaccacg agctcatgag tgggcagacc 420
84 tgcattgaga tggcagcgtc gagctggggg acaggctttg ccaactcact gctacagtcc 480
85 atccttgtct ggcacctccc cttctgtggc cacgtcatca actacttcta tgagatcttg 540
86 gcagtgctaa aactggcctg tggggacatc tccctcaatg cgctggcatt aatgggtggc 600
87 acagcgcgtc tgacactggc cccctctctg ctcatctgcc tgtcttacct ttctacctg 660
88 tctgccatcc ttagggtacc ctctgctgca ggcgggtgca aagccttttc cactgctca 720
89 gccaccgca cagtgggtgt ggttttttat gggacaatct ccttcatgta cttcaaacc 780
90 aaggccaagg atcccaacgt ggataagact gtcgcattgt tctacggggg tgtgacgccc 840
91 tcgctgaacc ccatcattta cagcctgagg aatgcagagg tgaaagctgc cgtcctaact 900
92 ctgctgagag gaggtttgct ctccaggaaa gcatcccact gctactgctg ccctctgccc 960
93 ctgtcagctg gcataggcta ggttgtgctg tggctcatgac ctcaaacctt gagaggctta 1020
94 aagccattaa ggtttgtttc ttgctcctga tgcaggcca ccagaggctg gtggggcttc 1080
95 tgctccgcat catggtcttc acccctctgg gactcaggat gacaaaacag ctaccattgg 1140
96 gaacactgct ggtcaccatg acaaaaagaa aagggaaaagt aacaaagcct aactgactc 1200
97 ttaaagcttc tactcagaag tggctgtgtt gcctccacct acatttcagt ggccaacaca 1260
98 atggcaacag gaaggcacag gaccacacct attgttaagg gggaaaagca cactatcgtg 1320
99 tgtctggat 1329

102 <210> SEQ ID NO: 2
103 <211> LENGTH: 326
104 <212> TYPE: PRT
105 <213> ORGANISM: Homo sapiens
107 <400> SEQUENCE: 2
108 Met Glu Pro Leu Asn Arg Thr Glu Val Ser Glu Phe Phe Leu Lys Gly
109 1 5 10 15
111 Phe Ser Gly Tyr Pro Ala Leu Glu His Leu Leu Phe Pro Leu Cys Ser
112 20 25 30
114 Ala Met Tyr Leu Val Thr Leu Leu Gly Asn Thr Ala Ile Met Ala Val
115 35 40 45
117 Ser Val Leu Asp Ile His Leu His Thr Pro Val Tyr Phe Phe Leu Gly
118 50 55 60
120 Asn Leu Ser Thr Leu Asp Ile Cys Tyr Thr Pro Thr Phe Val Pro Leu
121 65 70 75 80

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,422

DATE: 04/11/2002

TIME: 14:19:42

Input Set : A:\Cura-432.app

Output Set: N:\CRF3\04112002\I965422.raw

```

123 Met Leu Val His Leu Leu Ser Ser Arg Lys Thr Ile Ser Phe Ala Val
124           85           90           95
126 Cys Ala Ile Gln Met Cys Leu Ser Leu Ser Thr Gly Ser Thr Glu Cys
127           100           105           110
129 Leu Leu Leu Ala Val Met Ala Tyr Asp Arg Tyr Val Ala Ile Cys Gln
130           115           120           125
132 Pro Leu Arg Tyr Pro Glu Leu Met Ser Gly Gln Thr Cys Met Gln Met
133           130           135           140
135 Ala Ala Leu Ser Trp Gly Thr Gly Phe Ala Asn Ser Leu Leu Gln Ser
136 145           150           155           160
138 Ile Leu Val Trp His Leu Pro Phe Cys Gly His Val Ile Asn Tyr Phe
139           165           170           175
141 Tyr Glu Ile Leu Ala Val Leu Lys Leu Ala Cys Gly Asp Ile Ser Leu
142           180           185           190
144 Asn Ala Leu Ala Leu Met Val Ala Thr Ala Val Leu Thr Leu Ala Pro
145           195           200           205
147 Leu Leu Leu Ile Cys Leu Ser Tyr Leu Phe Ile Leu Ser Ala Ile Leu
148           210           215           220
150 Arg Val Pro Ser Ala Ala Gly Arg Cys Lys Ala Phe Ser Thr Cys Ser
151 225           230           235           240
153 Ala His Arg Thr Val Val Val Val Phe Tyr Gly Thr Ile Ser Phe Met
154           245           250           255
156 Tyr Phe Lys Pro Lys Ala Lys Asp Pro Asn Val Asp Lys Thr Val Ala
157           260           265           270
159 Leu Phe Tyr Gly Val Val Thr Pro Ser Leu Asn Pro Ile Ile Tyr Ser
160           275           280           285
162 Leu Arg Asn Ala Glu Val Lys Ala Ala Val Leu Thr Leu Leu Arg Gly
163           290           295           300
165 Gly Leu Leu Ser Arg Lys Ala Ser His Cys Tyr Cys Cys Pro Leu Pro
166 305           310           315           320
168 Leu Ser Ala Gly Ile Gly
169           325
172 <210> SEQ ID NO: 3
173 <211> LENGTH: 1013
174 <212> TYPE: DNA
175 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 3
178 cctatgtgat gtgttatctt tctcagctat gcctcagcct tggggaacac actttacata 60
179 tggggatggg gagacataacc aatgagagca acctagcagg ttctatcctt ttagggtttt 120
180 ctgattatcc tcagttacag aagggtctat ttgtgctcat attgattctg tatttactaa 180
181 ctattttggg gaataccacc atcattctgg tttctcgtct ggaacccaag cctcatatgc 240
182 cgatgtatct ctccctttct catctctcct tctgtaccg ctgcttcacc agcagtgtta 300
183 ttccccagct cctggtaaac ctgtgggaac ccatgaaaac tatcgctat ggtggctgtt 360
184 tggttcacct ttacaactcc catgccctgg gatccactga gtggtctctc ccggctctga 420
185 tgtcctgtga ccgctatgtg gctgtctgcc gtccctctca ttacactgtc ttaatgcata 480
186 tccatctctg catggccttg gcatctatgg catggctcag tggaatagcc accaccctgg 540
187 tacagtccac cctcaccctg cagctgccct tctgtgggca tcgccaagtg gatcatttca 600
188 tctgcgaggt cctgtgtctc atcaagctgg cttgtgtggg caccacgttt aacgaggctg 660
189 agctttttgt ggctagtatc cttttcctta tagtgccctg ctcatcctc ctggtctcct 720

```

RAW SEQUENCE LISTING

DATE: 04/11/2002

PATENT APPLICATION: US/09/965,422

TIME: 14:19:42

Input Set : A:\Cura-432.app

Output Set: N:\CRF3\04112002\I965422.raw

```

190 ctggctacat tgcccacgca gtgttgagga ttaagtcagc taccgggaga cagaaagcat 780
191 tcgggacctg cttctccac ctgacagtgg tcaccatctt ttatggaacc atcatcttca 840
192 tgtatctgca gccagccaag agtagatcca gggaccaggg caagtttggt tctctcttct 900
193 acactgtggt aaccgcgatg cttaaccctc ttatttatac cttgaggatc aaggaggtga 960
194 aaggggcatt aaagaaagt ctagcaaagg ctctgggagt aaatatttta tga 1013
197 <210> SEQ ID NO: 4
198 <211> LENGTH: 334
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
202 <400> SEQUENCE: 4
203 Met Cys Tyr Leu Ser Gln Leu Cys Leu Ser Leu Gly Glu His Thr Leu
204 1 5 10 15
206 His Met Gly Met Val Arg His Thr Asn Glu Ser Asn Leu Ala Gly Phe
207 20 25 30
209 Ile Leu Leu Gly Phe Ser Asp Tyr Pro Gln Leu Gln Lys Val Leu Phe
210 35 40 45
212 Val Leu Ile Leu Ile Leu Tyr Leu Leu Thr Ile Leu Gly Asn Thr Thr
213 50 55 60
215 Ile Ile Leu Val Ser Arg Leu Glu Pro Lys Pro His Met Pro Met Tyr
216 65 70 75 80
218 Phe Phe Leu Ser His Leu Ser Phe Leu Tyr Arg Cys Phe Thr Ser Ser
219 85 90 95
221 Val Ile Pro Gln Leu Leu Val Asn Leu Trp Glu Pro Met Lys Thr Ile
222 100 105 110
224 Ala Tyr Gly Gly Cys Leu Val His Leu Tyr Asn Ser His Ala Leu Gly
225 115 120 125
227 Ser Thr Glu Cys Val Leu Pro Ala Leu Met Ser Cys Asp Arg Tyr Val
228 130 135 140
230 Ala Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Ile His Leu
231 145 150 155 160
233 Cys Met Ala Leu Ala Ser Met Ala Trp Leu Ser Gly Ile Ala Thr Thr
234 165 170 175
236 Leu Val Gln Ser Thr Leu Thr Leu Gln Leu Pro Phe Cys Gly His Arg
237 180 185 190
239 Gln Val Asp His Phe Ile Cys Glu Val Pro Val Leu Ile Lys Leu Ala
240 195 200 205
242 Cys Val Gly Thr Thr Phe Asn Glu Ala Glu Leu Phe Val Ala Ser Ile
243 210 215 220
245 Leu Phe Leu Ile Val Pro Val Ser Phe Ile Leu Val Ser Ser Gly Tyr
246 225 230 235 240
248 Ile Ala His Ala Val Leu Arg Ile Lys Ser Ala Thr Gly Arg Gln Lys
249 245 250 255
251 Ala Phe Gly Thr Cys Phe Ser His Leu Thr Val Val Thr Ile Phe Tyr
252 260 265 270
254 Gly Thr Ile Ile Phe Met Tyr Leu Gln Pro Ala Lys Ser Arg Ser Arg
255 275 280 285
257 Asp Gln Gly Lys Phe Val Ser Leu Phe Tyr Thr Val Val Thr Arg Met
258 290 295 300
260 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Ile Lys Glu Val Lys Gly Ala

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/965,422

DATE: 04/11/2002

TIME: 14:19:42

Input Set : A:\Cura-432.app

Output Set: N:\CRF3\04112002\I965422.raw

```

261 305          310          315          320
263 Leu Lys Lys Val Leu Ala Lys Ala Leu Gly Val Asn Ile Leu
264          325          330
267 <210> SEQ ID NO: 5
268 <211> LENGTH: 1014
269 <212> TYPE: DNA
270 <213> ORGANISM: Homo sapiens
272 <400> SEQUENCE: 5
273 ccctatgtga tgtgttatct ttctcagcta tgcctcagcc ttggggaaca cactttacat 60
274 atggggatgg tgagacatac caatgagagc aacctagcag gtttcatcct tttagggttt 120
275 tctgattatc ctcagttaca gaaggttcta tttgtgctca tattgattct gtatttacta 180
276 actatttttg ggaataccac catcattctg gtttctcgtc tggaacccaa gtttcatatg 240
277 ccgatgtatt tcttcttttc tcatctctcc ttctgtacc gctgcttcac cagcagtgtt 300
278 attccccagc tcctggtaaa cctgtgggaa cccatgaaaa ctatgccta tgggtggctgt 360
279 ttggttcacc tttaacaact ccattgccct ggatccaact agtgcgtcct cccggctctg 420
280 atgtcctgtg accgctatgt ggctgtctgc cgtcctctcc attacactgt cttaatgcat 480
281 atccatctct gcattggcctt ggcattctat gcattggctca gtggaatagc caccaccctg 540
282 gtacagtcca cctcaccctt gcagctgccc ttctgtgggc atcgccaagt ggatcatttc 600
283 atctgcgagg tcctgtgtct catcaagctg gcttgtgtgg gcaccacgtt taacgaggct 660
284 gagctttttg tggctagtat ccttttctct atagtgcctg tctcattcat cctggctctc 720
285 tctggctaca ttgccacgc agtgttgagg attaatgcag ctaccaggag acagaaagca 780
286 tctgggacct gcttctccca cctgacagtg gtcaccatct tttatggaac catcatcttc 840
287 atgtatctgc agccagccaa gagtagatcc agggaccagg gcaagtttgt ttctctcttc 900
288 tacactgtgg taaccgcgat gcttaacctt cttatttata ccttgaggat caaggagggtg 960
289 aaaggggcat taaagaaagt tctagcaaag gctctgggag taaatatttt atga 1014
292 <210> SEQ ID NO: 6
293 <211> LENGTH: 334
294 <212> TYPE: PRT
295 <213> ORGANISM: Homo sapiens
297 <400> SEQUENCE: 6
298 Met Cys Tyr Leu Ser Gln Leu Cys Leu Ser Leu Gly Glu His Thr Leu
299 1 5 10 15
301 His Met Gly Met Val Arg His Thr Asn Glu Ser Asn Leu Ala Gly Phe
302 20 25 30
304 Ile Leu Leu Gly Phe Ser Asp Tyr Pro Gln Leu Gln Lys Val Leu Phe
305 35 40 45
307 Val Leu Ile Leu Ile Leu Tyr Leu Leu Thr Ile Leu Gly Asn Thr Thr
308 50 55 60
310 Ile Ile Leu Val Ser Arg Leu Glu Pro Lys Leu His Met Pro Met Tyr
311 65 70 75 80
313 Phe Phe Leu Ser His Leu Ser Phe Leu Tyr Arg Cys Phe Thr Ser Ser
314 85 90 95
316 Val Ile Pro Gln Leu Leu Val Asn Leu Trp Glu Pro Met Lys Thr Ile
317 100 105 110
319 Ala Tyr Gly Gly Cys Leu Val His Leu Tyr Asn Ser His Ala Leu Gly
320 115 120 125
322 Ser Thr Glu Cys Val Leu Pro Ala Leu Met Ser Cys Asp Arg Tyr Val
323 130 135 140
325 Ala Val Cys Arg Pro Leu His Tyr Thr Val Leu Met His Ile His Leu

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/965,422

DATE: 04/11/2002

TIME: 14:19:43

Input Set : A:\Cura-432.app

Output Set: N:\CRF3\04112002\I965422.raw